

WEST Search History

DATE: Wednesday, March 05, 2003

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DB=USPT; PLUR=YES; OP=ADJ

L6	l4 and L5	2	L6
L5	(\$25phosphorylcholine) or (\$25phosphoryl choline)	827	L5
L4	(l1 or l2) and (L3)	61	L4
L3	intraocular	6839	L3
L2	(benzylmethacrylate) or (benzyl methacrylate) or (benzyl methacrylate)	3244	L2
L1	(benzylacrylate) or (benzyl acrylate)	2437	L1

END OF SEARCH HISTORY

WEST

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L4: Entry 1 of 61

File: USPT

Dec 10, 2002

DOCUMENT-IDENTIFIER: US 6491721 B2

TITLE: Toric intraocular lens materialAbstract Text (1):

A method of selecting an intraocular lens material for toric lenses is disclosed. The method comprises determining the tack of the material.

Brief Summary Text (2):

This invention relates to intraocular lenses. In particular, the present invention relates to toric intraocular lenses.

Brief Summary Text (4):

Foldable intraocular lens ("IOL") materials can generally be divided into three categories: silicone materials, hydrogel materials, and non-hydrogel acrylic materials. Many materials in each category are known. See, for example, Foldable Intraocular Lenses, Ed. Martin et al., Slack Incorporated, Thorofare, N.J. (1993). Biocompatibility varies among different IOL materials within and among each category.

Brief Summary Text (5):

One measure of biocompatibility for an IOL can be the incidence of posterior capsule opacification ("PCO"). A number of factors may be involved in causing and/or controlling PCO. For example, the design and edge sharpness of an IOL may be a factor. See, Nagamoto et al., J. Cataract Refract. Surg., 23:866-872 (1997); and Nagata et al., Jpn. J. Ophthalmol., 40:397-403 (1996). See, also, U.S. Pat. Nos. 5,549,670 and 5,693,094. Another factor appears to be the lens material itself. See, for example, Mandle, "Acrylic lenses cause less posterior capsule opacification than PMMA, silicone IOLs," Ocular Surgery News, Vol. 14. No. 15 (1996). See, also, Oshika, et al., "Two Year Clinical Study of a Soft Acrylic Intraocular Lens," J. Cataract. Refract. Surg., 22:104-109 (1996); and Ursell et al., "Relationship Between Intraocular Lens Biomaterials and Posterior Capsule Opacification," J. Cataract Refract. Surg., 24:352-360 (1998).

Detailed Description Text (8):

Monomers of Formula I are known and include, but are not limited to: 2-phenoxyethyl acrylate; 2-phenylethylthio acrylate; 2-phenylethylamino acrylate; phenyl acrylate; benzyl acrylate; 2-phenylethyl acrylate; 3-phenylpropyl acrylate; 3-phenoxypropyl acrylate; 4-phenylbutyl acrylate; 4-phenoxybutyl acrylate; 4-methylphenyl acrylate; 4-methylbenzyl acrylate; 2-2-methylphenylethyl acrylate; 2-3-methylphenylethyl acrylate; 2-4-methylphenylethyl acrylate; and their corresponding methacrylate compounds. These acrylic/methacrylic monomers and others are disclosed in U.S. Pat. No. 5,290,892, the entire contents of which are hereby incorporated by reference. Suitable IOL materials for screening using the method of the present invention also include, but are not limited to, those disclosed in U.S. Pat. No. 5,331,073, the entire contents of which are hereby incorporated by reference.

Detailed Description Text (23):

Thus, in one embodiment, the present invention relates to toric intraocular lenses comprising an optic having an anterior surface, posterior surface, or both, consisting of (i.e., coated with) a material that has a Tack Quotient of about 1 or greater, provided that said material does not consist essentially of (i) 2-phenylethyl acrylate and 2-phenylethylmethacrylate or (ii) ethyl acrylate, ethyl methacrylate and trifluoroethylmethacrylate. In this embodiment, where the materials of the present invention form a coating on the optic, the coating should be of uniform thickness. In another embodiment, the optic does not comprise materials selected according to the method of the present invention, but the haptic(s) are coated with materials selected

according to the present invention. Coatings can be applied using known techniques, including solution and vapor deposition techniques. The coating, whether on the optic or haptic(s), generally will be about 25 .mu.m or less in thickness.

Other Reference Publication (3):

Gabriel et al., "In Vitro Adherence of *Pseudomonas aeruginosa* to Four Intraocular Lenses," J. Cataract Refractive Surg, vol. 24, pp. 124-129 (1998).

Other Reference Publication (6):

Johnston et al., "In Vitro Protein Adsorption to 2 Intraocular Lens Materials," J. Cataract & Refractive Surgery, vol. 25, pp. 1109-1115 (1999).

Other Reference Publication (7):

Kanagawa et al., "Presence and distribution of fibronectin on the surface of implanted intraocular lenses in rabbits," Graefe's Archive for Clinical & Exp. Ophthalmology, vol. 228, pp. 398-400 (1990).

Other Reference Publication (8):

Linnola et al., "Acrylate Intraocular Lenses (IOLs) Hinder Posterior Migration of Epithelium; Activity Tested by Corneal Tissue Cultures," ESCRS Abstracts, p. 120 (1997).

Other Reference Publication (9):

Linnola et al., "Adhesion of soluble fibronectin, laminin, and collagen type IV to intraocular lens materials," J. of Cataract & Refractive Surgery, vol. 25 (11), pp. 1486-1491 (1999).

Other Reference Publication (10):

Linnola et al., "Intraocular lens bioactivity tested using rabbit corneal tissue cultures," J. Cataract & Refractive Surgery, vol. 25, pp. 1480-1485 (1999).

Other Reference Publication (14):

Nagamoto et al., "Effect of Intraocular Lens Design on Migration of Lens Epithelial Cells Onto the Posterior Capsule," J. Cataract Refract Surg., vol. 23, pp. 866-872 (1997).

Other Reference Publication (17):

Nguyen et al., "Digital Overlay Technique for Documenting Toric Intraocular Lens Axis Orientation," J. Cataract Refractive Surgery, vol. 26, pp. 1496-1504 (2000).

Other Reference Publication (19):

Oshika et al., "Adhesion of Lens Capsule to Intraocular Lenses of Polymethylmethacrylate, Silicone and Acrylic Foldable Materials: An Experimental Study," British Journal of Ophthalmology, vol. 82, pp. 549-553 (1998).

Other Reference Publication (21):

Oshika et al., "Two Year Clinical Study of a Soft Acrylic Intraocular Lens," J. Cataract Refract. Sur., vol. 22, pp. 104-109 (1996).

Other Reference Publication (23):

Pande et al., "Posterior Capsular Opacification With PMMA, Silicone and Acrysof Intraocular Lenses: A Prospective Randomized Clinical Trial," Investigative Ophthalmology & Visual Science, vol. 36(4), p. S397 (1995).

Other Reference Publication (24):

Patel et al., "Postoperative Intraocular Lens Rotation," Ophthalmology, vol. 106(11), pp. 2190-2196 (1999).

Other Reference Publication (25):

Reich et al., "Intraocular-Lens-Endothelial Interface: Adhesive Force Measurements," J. of Biomedical Materials Research, vol. 187, pp. 737-744 (1984).

Other Reference Publication (26):

Ruhswurm et al., "Astigmatism Correction With a Foldable Toric Intraocular Lens in Cataract Patients," J. Cataract Refractive Surgery, vol. 26, pp. 1022-1027.

Other Reference Publication (28):

Sun et al., "Toric Intraocular Lenses for Correcting Astigmatism in 130 Eyes," Ophthalmology, vol. 107(9), pp. 1776-1782.

Other Reference Publication (29):

Ursell et al., Anterior Capsule Stability in Eyes With Intraocular Lenses Made of Poly(methyl methacrylate), Silicone, and AcrySof, J. Cataract Refractive Surg., vol. 23, pp. 1532-1538 (1997).

Other Reference Publication (30):

Ursell et al., "Relationship Between Intraocular Lens Biomaterials and Posterior Capsule Opacification," J. Cataract Refractive Surg. vol. 24, pp. 352-360 (1998).

Other Reference Publication (31):

Ursell et al., "The In Vivo Movement of Cells on the Surface of Intraocular Lenses in Humans Observed with Sequential Specular Photomicrography," Investigative Ophthalmology & Visual Science, vol. 36(4), S795 (1995).

Other Reference Publication (32):

Werner et al., "Endothelial Damage Caused by Uncoated and Fluorocarbon-Coated Poly(methyl methacrylate) Intraocular Lenses," J. Cataract Refractive Surgery, vol. 23, pp. 1013-1019 (1997).

CLAIMS:

1. A toric intraocular lens comprising an optic having an anterior surface, posterior surface, or both, consisting of a material that has a Tack Quotient of about 1 or greater, provided that said material does not consist essentially of (i) 2-phenylethyl acrylate and 2-phenylethylmethacrylate or (ii) ethyl acrylate, ethyl methacrylate and trifluoroethylmethacrylate, wherein the lens has a shape and configuration of a toric lens.
2. The toric intraocular lens of claim 1 wherein the optic comprises a material that is substantially free of glistenings, has a refractive index of about 1.50 or greater, has a T.sub.g of about -20 to +25.degree. C., and has an elongation of at least about 150%.
3. The toric intraocular lens of claim 1 wherein the Tack Quotient is about 1-3.
4. The toric intraocular lens of claim 3 wherein the Tack Quotient is about 1-2.
5. The toric intraocular lens of claim 4 wherein the Tack Quotient is about 1-1.5.
6. A toric intraocular lens comprising an optic consisting of a material that has a Tack Quotient of about 1 or greater, provided that said material does not consist essentially of (i) 2-phenylethyl acrylate and 2-phenylethylmethacrylate or (ii) ethyl acrylate, ethyl methacrylate and trifluoroethylmethacrylate, wherein the lens has a shape and configuration of a toric lens.
7. A toric intraocular lens comprising a haptic consisting of a material that has a Tack Quotient of about 1 or greater, provided that said material does not consist essentially of (i) 2-phenylethyl acrylate and 2-phenylethylmethacrylate or (ii) ethyl acrylate, ethyl methacrylate and trifluoroethylmethacrylate, wherein the lens has a shape and configuration of a toric lens.
8. A toric intraocular lens comprising a haptic coated with a material that has a Tack Quotient of about 1 or greater, provided that said material does not consist essentially of (i) 2-phenylethyl acrylate and 2-phenylethylmethacrylate or (ii) ethyl acrylate, ethyl methacrylate and trifluoroethylmethacrylate, wherein the lens has a shape and configuration of a toric lens.

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L4: Entry 3 of 61

File: USPT

Oct 15, 2002

DOCUMENT-IDENTIFIER: US 6465588 B1

TITLE: Four component copolymers and the ocular lens made thereof

Abstract Text (1):

A hydrophilic copolymer which is suitable for the production of an ocular lens such as an intraocular lens or a contact lens, and which is particularly suitable for a foldable intraocular lens, and also an intraocular lens made therefrom.

Brief Summary Text (2):

This invention relates to a hydrophilic copolymer, or hydrogel, which is suitable for the production of ocular lens such as intraocular lens, contact lens or the like, and is particularly suitable for foldable intraocular lens (foldable IOL).

Brief Summary Text (4):

Intraocular lens (IOL) has been used to replace crystalline lens in cataract surgery. Since IOL was first used in implanting in 1949, various researches have been carried out on IOL materials. With the great evolution of operation methods and advancement of operation methods, demands on the characteristic features of IOL have also changed a lot. Recently, with the popularity of phacoemulsification techniques and the like, it is possible to open a very small incision to remove the opaque crystalline lens, and thus the demands on the characteristic features of implanted IOL have changed gradually. For example, in order to implant IOL through a small incision, the IOL should be in a folded form when implanted and returned to an expanding state in lens capsule, this is the characteristics of the so-called foldable IOL. Herein, various researches have been carried out on IOL materials. Polymethyl methacrylate (PMMA), silicone, acrylic resin and the like have been widely used as IOL materials, while silicone and acrylic acid resin can be used as foldable IOL materials. Recently, copolymers of hydroxyethyl methacrylate, methyl methacrylate and the like have also been used as foldable IOL materials. Moreover, besides the studies on these IOL materials, the following techniques have been adopted in the practical use: an ultra-violet (UV) light absorber such as hydroxybenzophenone or hydroxyphenyl benzotriazole has been added to the IOL materials to avoid the effect of UV light on retina; polysaccharide such as heparin is coated on IOL surface to improve biocompatibility and to avoid cell deposition and the like.

Brief Summary Text (6):

It is an object of the present invention to provide a kind of ocular lens such as intraocular lens, contact lens and the like, to say in more detail, it is used mainly as foldable intraocular lens (foldable IOL). For the study of foldable IOL materials, their properties including refractive index, surface strength, tensile strength, recovering speed, transparency and the like should be considered. For example: 1) if the refractive index of IOL is too low, the thickness of IOL would increase too much, thus contraction difference of periphery would become over large. So it is necessary for IOL to have a proper refractive index. Specifically, the preferable range of refractive index is 1.4-1.6. 2) because tweezers are used to implant foldable IOL, surface strength and tensile strength of IOL bearing the operation is needed. 3) after foldable IOL is implanted, it must be returned to its original form in lens capsule. Recovering speed can be varied with the difference of habit and ability among operators. In general, the possibility of mechanical invasion of peripheral tissue increases with the increase of recovering speed. On the other hand, with the slowdown of recovering speed, the operation in turn gets longer, the possibility of bad effects on peripheral tissue also increases. Accordingly, suitable recovering speed is needed for foldable IOL.

Detailed Description Text (33):

- The above abbreviations represent the following compounds (the followings are same)
HEMA: 2-hydroxyethyl methacrylate HEA: 2-hydroxyethyl acrylate HPMA: 2-hydroxypropyl methacrylate PyEA: 2-(2-pyrrolidon-1-yl)ethyl acrylate PyEMA: 2-(2-pyrrolidon-1-yl)ethyl methacrylate PyMA: 2-pyrrolidon-1-ylmethyl acrylate PyMMA: 2-pyrrolidon-1-ylmethyl methacrylate NAPy: 1-acryloyl-2-pyrrolidone PyMAM: N-(2-pyrrolidon-1-ylmethyl)acrylamide PyMMAM: N-(2-pyrrolidon-1-ylmethyl)methacrylamide MA: methyl acrylate MMA: methyl methacrylate PMA: phenylmethyl acrylate PEA: 2-phenylethyl acrylate PEMA: 2-phenylethyl methacrylate BzA: benzyl acrylate BzMA: benzyl methacrylate BBzA: 4-bromobenzyl acrylate BBzMA: 4-bromobenzyl methacrylate NMA: 1-naphthylmethyl acrylate NMMA: 1-naphthylmethyl methacrylate APMP: N-acryloyl-N'-(2-pyrimidyl) piperazine MPMP: N-methacryloyl-N'-(2-pyrimidyl) piperazine PMA: N-(2-pyrimidyl) acrylamide PMMA: N-(2-pyrimidyl) methacrylamide

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L4: Entry 5 of 61

File: USPT

Mar 12, 2002

DOCUMENT-IDENTIFIER: US 6355190 B1

TITLE: Method of molding ophthalmic lens product, and mold assembly used in the method

Brief Summary Text (4):

The present invention relates in general to molding of an ophthalmic lens product by using a mold assembly which has a mold cavity. In particular, the invention is concerned with the method of molding such a lens product having a configuration corresponding to that of the ophthalmic lens such as an intraocular lens or a contact lens, or a configuration corresponding to that of a precursor of the ophthalmic lens, by polymerizing a monomer composition in the mold cavity to provide a polymer product which constitutes the lens product.

Brief Summary Text (6):

There have been known various methods for forming an ophthalmic lens product having a configuration or geometry corresponding to that of an ophthalmic lens such as an intraocular lens or a contact lens, or a configuration corresponding to that of a precursor of the ophthalmic lens, more precisely, a lens product which gives at least an optical portion of the intended ophthalmic lens. For instance, the lens product is obtained by effecting a machining operation on a bar-shaped or block-shaped polymer product, such as cutting and grinding. Alternatively, the lens product is obtained by a molding operation using a mold assembly which has a mold cavity. Namely, a monomer composition that gives the polymer product is introduced into the mold cavity of the mold assembly, and is polymerized to form an intended ophthalmic lens whose configuration corresponds to that of the mold cavity.

Brief Summary Text (9):

JP-A-9-28723 discloses a method of producing a soft intraocular lens by using a mold assembly consisting of an upper and a lower mold, which are assembled together such that they are fluid-tightly sealed to define therebetween a mold cavity which is filled with a monomer composition. The monomer composition in the mold cavity is polymerized with the mold assembly being subjected to a nitrogen pressure of 2.0 kg/cm.^{sup.2} at a temperature of 110.degree. C. for two hours. Since the mold assembly disclosed in this publication is fluid-tightly sealed, the monomer composition in the mold cavity is not subjected to the nitrogen pressure unless the molding surfaces deflect or deform so as to be in contact with the shrinking monomer composition in the mold cavity. In this case, the monomer composition in the mold cavity may not be formed into the intraocular lens having a desired configuration corresponding to that of the mold cavity. On the other hand, if the molding surfaces deflect or deform so as to be in contact with the monomer composition in the mold cavity which shrinks during the polymerization, the mold assembly may suffer from a problem similar to that experienced in the above U.S. Pat. No. 5,578,332. In other words, the intraocular lens to be obtained by using the mold assembly does not have optical surfaces with high accuracy of configuration due to the deflection or deformation of the molding surfaces.

Detailed Description Text (8):

In the present mold assembly constructed as described above, the lower molding surface 14 of the lower mold half 6 and the upper molding surface 16 of the upper mold half 8 cooperate with each other to define a mold cavity 24 that gives the intended lens product (which gives an optical portion of an intraocular lens in this embodiment). The axial dimension of the mold cavity 24 is determined by the cylindrical spacer 10 sandwiched by and between the base portion 6a of the lower mold half 6 and the base portion 8a of the upper mold half 8, such that the radially outer or peripheral portions of the lower and upper molding surfaces 14, 16 are spaced apart from each other by a relatively small axial distance. In this arrangement, the mold cavity 24 is formed with a circumferential opening 26 extending along the entire circumference, for

permitting fluid communication between the annular intermediate chamber and the mold cavity 24.

Detailed Description Text (20):

The monomer composition 30 which is polymerized to produce the lens product includes at least one monomer known in the art, which monomer gives the polymer product that constitutes the ophthalmic lens product. Alternatively, the monomer composition 30 may be a macromer or a prepolymer. Such a monomer is a radically polymerizable compound which includes at least one of vinyl, allyl, acryl and methacryl groups in its molecule, and which is conventionally used as a material for a hard contact lens, a soft contact lens or an intraocular lens. Examples of the compound include: esters of (meth)acrylic acid such as alkyl (meth)acrylate, siloxanyl (meth)acrylate, fluoroalkyl (meth)acrylate, hydroxyalkyl (meth)acrylate, polyethyleneglycol (meth)acrylate, a polyhydric alcohol (meth)acrylate; derivatives of styrene; and N-vinyl lactam. The monomer composition 30 includes, as needed, a polyfunctional monomer as a cross-linking agent, such as ethyleneglycol di(meth)acrylate, diethyleneglycol di(meth)acrylate or butanediol di(meth)acrylate.

Detailed Description Text (21):

In the present invention, it is preferable to use at least one monomer selected from among: aromatic ring-containing acrylate such as phenoxyethyl acrylate, phenylethyl acrylate or benzyl acrylate; alkyl acrylate such as ethyl acrylate, n-butyl acrylate or isobutyl acrylate; hydroxyl group-containing alkyl (meth)acrylate such as hydroxyethyl (meth)acrylate or hydroxybutyl (meth)acrylate; hydrophilic monomer such as dimethyl (meth)acrylamide or N-vinyl lactam; cross-linking monomer such as butanediol di(meth)acrylate or ethyleneglycol di(meth)acrylate, and silicon-containing (meth)acrylate.

Detailed Description Text (38):

Each of the thus obtained integral assemblies including the respective polymer products, which gives the optical portion of the intended intraocular lens, was removed from the cylindrical body (2) of the assembly, and was subjected to a cutting operation to remove the radially outer portion to reduce its diameter to a suitable extent. Then, the lower and upper mold halves 6, 8 were separated from the lens product formed in the mold cavity (24). The molded surfaces of nine lens products obtained by polymerization according to the present invention were inspected for any defects such as crimps and dimples (so-called "sink or shrink mark"). It was confirmed that none of the nine lens products suffered from the sink mark, so that the percentage of appearance of the sink mark was 0%.

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Search Results - Record(s) 1 through 61 of 61 returned.☐ 1. Document ID: US 6491721 B2

L4: Entry 1 of 61

File: USPT

Dec 10, 2002

US-PAT-NO: 6491721

DOCUMENT-IDENTIFIER: US 6491721 B2

TITLE: Toric intraocular lens material

DATE-ISSUED: December 10, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Freeman; Charles	Arlington	TX		
Karakelle; Mutlu	Fort Worth	TX		
Simpson; Michael J.	Arlington	TX		

US-CL-CURRENT: 623/6.56

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWC
Draw	Desc	Image									

☐ 2. Document ID: US 6478821 B1

L4: Entry 2 of 61

File: USPT

Nov 12, 2002

US-PAT-NO: 6478821

DOCUMENT-IDENTIFIER: US 6478821 B1

TITLE: Iris fixated intraocular lens and method of implantation

DATE-ISSUED: November 12, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Laguette; Stephen W.	Santa Barbara	CA		
Weinschenk, III; Joseph I.	Laguna Niguel	CA		

US-CL-CURRENT: 623/6.49; 623/6.56, 623/6.59

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWC
Draw	Desc	Image									

☐ 3. Document ID: US 6465588 B1

L4: Entry 3 of 61

File: USPT

Oct 15, 2002

US-PAT-NO: 6465588
DOCUMENT-IDENTIFIER: US 6465588 B1

TITLE: Four component copolymers and the ocular lens made thereof

DATE-ISSUED: October 15, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Li; Fumian	Beijing 100871			CN

US-CL-CURRENT: 526/258; 524/359, 524/558, 526/320, 526/328.5

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC
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☒ 4. Document ID: US 6416550 B2

L4: Entry 4 of 61

File: USPT

Jul 9, 2002

US-PAT-NO: 6416550
DOCUMENT-IDENTIFIER: US 6416550 B2

TITLE: Method of selecting an intraocular lens material

DATE-ISSUED: July 9, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Freeman; Charles	Arlington	TX		

US-CL-CURRENT: 623/6.11; 623/6.56

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC
Draw Desc	Image										

☒ 5. Document ID: US 6355190 B1

L4: Entry 5 of 61

File: USPT

Mar 12, 2002

US-PAT-NO: 6355190
DOCUMENT-IDENTIFIER: US 6355190 B1

TITLE: Method of molding ophthalmic lens product, and mold assembly used in the method

DATE-ISSUED: March 12, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Ojio; Tatsuya	Kasugai			JP
Niwa; Kazuharu	Kasugai			JP
Yamashita; Keiji	Nagoya			JP
Yasuda; Akihiro	Ichinomiya			JP

US-CL-CURRENT: 264/1.1; 249/117, 264/2.5, 425/808

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KWC

☒ 6. Document ID: US 6353069 B1

L4: Entry 6 of 61

File: USPT

Mar 5, 2002

US-PAT-NO: 6353069

DOCUMENT-IDENTIFIER: US 6353069 B1

TITLE: High refractive index ophthalmic device materials

DATE-ISSUED: March 5, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Freeman; Charles	Arlington	TX		
Jinkerson; David L.	Benbrook	TX		
Karakelle; Mutlu	Fort Worth	TX		
Leboeuf; Albert R.	Fort Worth	TX		

US-CL-CURRENT: 526/319; 526/307.5, 526/323, 526/323.1, 526/323.2, 526/326, 526/328.5, 623/6.11

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
Draw Desc	Image								

KWC

☒ 7. Document ID: US 6329485 B1

L4: Entry 7 of 61

File: USPT

Dec 11, 2001

US-PAT-NO: 6329485

DOCUMENT-IDENTIFIER: US 6329485 B1

TITLE: High refractive index hydrogel compositions for ophthalmic implants

DATE-ISSUED: December 11, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Vanderbilt; David P.	St. Louis	MO		

US-CL-CURRENT: 526/318.1; 526/317.1, 526/318, 526/319, 526/320, 526/327, 623/6.11

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KWC

☐ 8. Document ID: US 6326448 B1

L4: Entry 8 of 61

File: USPT

Dec 4, 2001

US-PAT-NO: 6326448

• DOCUMENT-IDENTIFIER: US 6326448 B1

TITLE: Soft intraocular lens material

DATE-ISSUED: December 4; 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Ojio; Tatsuya	Kasugai			JP
Niwa; Kazuharu	Kasugai			JP
Kawaguchi; Tohru	Kasugai			JP

US-CL-CURRENT: 526/259; 526/264, 526/307.5, 526/307.7, 526/312, 526/320

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KWIC

☐ 9. Document ID: US 6313187 B1

L4: Entry 9 of 61

File: USPT

Nov 6, 2001

US-PAT-NO: 6313187

DOCUMENT-IDENTIFIER: US 6313187 B1

TITLE: High refractive index ophthalmic device materials prepared using a post-polymerization cross-linking method

DATE-ISSUED: November 6, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
LeBoeuf; Albert R.	Burleson	TX		
Schlueter; Douglas C.	Fort Worth	TX		
Weinschenk, III; Joseph I.	Fort Worth	TX		

US-CL-CURRENT: 522/13; 522/182, 522/183, 522/184, 523/106, 526/232

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KWIC

☐ 10. Document ID: US 6310116 B1

L4: Entry 10 of 61

File: USPT

Oct 30, 2001

US-PAT-NO: 6310116

DOCUMENT-IDENTIFIER: US 6310116 B1

TITLE: Molded polymer article having a hydrophilic surface and process for producing the same

DATE-ISSUED: October 30, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Yasuda; Tokugen	Kyoto			JP
Inoue; Hitoshi	Kyoto			JP
Kitajima; Satsuki	Kyoto			JP
Sato; Masahiro	Kyoto			JP
Yang; Wu	Kyoto			JP
Omura; Ikuo	Kurashiki			JP

US-CL-CURRENT: 523/106; 264/1.7, 427/133, 427/2.24, 523/105, 523/107

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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☐ 11. Document ID: US 6281319 B1

L4: Entry 11 of 61

File: USPT

Aug 28, 2001

US-PAT-NO: 6281319

DOCUMENT-IDENTIFIER: US 6281319 B1

TITLE: Water plasticized high refractive index polymer for ophthalmic applications

DATE-ISSUED: August 28, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Mentak; Khalid	Goleta	CA		

US-CL-CURRENT: 526/319; 526/320, 526/322, 526/323, 526/323.2, 526/327, 526/328.5, 526/346, 526/347

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KMC

☐ 12. Document ID: US 6277940 B1

L4: Entry 12 of 61

File: USPT

Aug 21, 2001

US-PAT-NO: 6277940

DOCUMENT-IDENTIFIER: US 6277940 B1

TITLE: Material for a soft intraocular lens

DATE-ISSUED: August 21, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Niwa; Kazuharu	Kasugai			JP
Ojio; Tatsuya	Kasugai			JP
Kawaguchi; Toru	Kasugai			JP

US-CL-CURRENT: 526/328.5; 526/261, 526/310, 526/312, 526/320, 526/328, 526/329.7

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
Draw Desc	Image								

KIMC

☐ 13. Document ID: US 6241766 B1

L4: Entry 13 of 61

File: USPT

Jun 5, 2001

US-PAT-NO: 6241766

DOCUMENT-IDENTIFIER: US 6241766 B1

TITLE: Intraocular lenses made from polymeric compositions

DATE-ISSUED: June 5, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Liao; Xiugao	Irvine	CA		
Weinschenk; Joseph I.	Laguna Niguel	CA		

US-CL-CURRENT: 623/6.56; 351/160R, 623/5.16, 623/926

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
Draw Desc	Image								

KIMC

☐ 14. Document ID: US 6210438 B1

L4: Entry 14 of 61

File: USPT

Apr 3, 2001

US-PAT-NO: 6210438

DOCUMENT-IDENTIFIER: US 6210438 B1

TITLE: Bicomposite intraocular lens and method for its preparation

DATE-ISSUED: April 3, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Sheets, Jr.; John W.	Fort Worth	TX		
Leboeuf; Albert R.	Fort Worth	TX		
Patel; Anilbhai S.	Arlington	TX		
Karakelle; Mutlu	Fort Worth	TX		
Van Noy; Stephen J.	Fort Worth	TX		

US-CL-CURRENT: 623/6.56; 523/106

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
Draw Desc	Image								

KIMC

☐ 15. Document ID: US 6187042 B1

L4: Entry 15 of 61

File: USPT

Feb 13, 2001

US-PAT-NO: 6187042

• DOCUMENT-IDENTIFIER: US 6187042 B1

TITLE: Intraocular lens coating compositions

DATE-ISSUED: February 13, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Sheets, Jr.; John W.	Fort Worth	TX		
Leboeuf; Albert R.	Fort Worth	TX		
Patel; Anilbhai S.	Arlington	TX		
Karakelle; Mutlu	Fort Worth	TX		
Van Noy; Stephen J.	Fort Worth	TX		

US-CL-CURRENT: 623/6.62; 623/6.6, 623/926

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	KWIC
Draw Desc	Image									

☐ 16. Document ID: US 6140438 A

L4: Entry 16 of 61

File: USPT

Oct 31, 2000

US-PAT-NO: 6140438

DOCUMENT-IDENTIFIER: US 6140438 A

TITLE: Soft intraocular lens material

DATE-ISSUED: October 31, 2000

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Ojio; Tatsuya	Kasugai			JP
Niwa; Kazuharu	Kasugai			JP
Kawaguchi; Tohru	Kasugai			JP

US-CL-CURRENT: 526/264; 526/307.5, 526/307.7, 526/320

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	KWIC
Draw Desc	Image									

☐ 17. Document ID: US 6030554 A

L4: Entry 17 of 61

File: USPT

Feb 29, 2000

US-PAT-NO: 6030554

DOCUMENT-IDENTIFIER: US 6030554 A

TITLE: Method of sterilizing intraocular lens by electron beam

DATE-ISSUED: February 29, 2000

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Ichihara; Masuji	Aichi-ken			JP

US-CL-CURRENT: 252/583; 252/589, 422/22

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
Draw	Desc	Image							

KWC

☐ 18. Document ID: US 6001128 A

L4: Entry 18 of 61

File: USPT

Dec 14, 1999

US-PAT-NO: 6001128

DOCUMENT-IDENTIFIER: US 6001128 A

TITLE: Materials for use in glaucoma filtration devices

DATE-ISSUED: December 14, 1999

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Graff; Gustav	Cleburne	TX		
Karakelle; Mutlu	Fort Worth	TX		
Sheets, Jr.; John W.	Fort Worth	TX		
Yanni; John M.	Burleson	TX		

US-CL-CURRENT: 526/72; 210/348, 210/500.35, 606/161, 623/4.1, 623/6.56, 623/901

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
Draw	Desc	Image							

KWC

☐ 19. Document ID: US 5939208 A

L4: Entry 19 of 61

File: USPT

Aug 17, 1999

US-PAT-NO: 5939208

DOCUMENT-IDENTIFIER: US 5939208 A

TITLE: Method for creation of biomimetic surfaces

DATE-ISSUED: August 17, 1999

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Stoy; Patrick	Princeton	NJ		

US-CL-CURRENT: 428/500; 424/422, 424/423, 424/427, 424/487, 427/2.12, 427/2.13, 427/2.24, 427/2.28, 427/2.3, 427/340, 427/352, 427/353, 428/424.2, 428/424.7, 523/103, 523/105, 523/106, 523/108

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
Draw	Desc	Image							

KWC

☒ 20. Document ID: US 5922821 A

L4: Entry 20 of 61

File: USPT

Jul 13, 1999

US-PAT-NO: 5922821

DOCUMENT-IDENTIFIER: US 5922821 A

TITLE: Ophthalmic lens polymers

DATE-ISSUED: July 13, 1999

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
LeBoeuf; Albert R.	Fort Worth	TX		
Karakelle; Mutlu	Fort Worth	TX		

US-CL-CURRENT: 526/286; 351/159, 351/160R, 526/292.5, 526/313, 526/320

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
Draw Desc	Image								

KWC

☐ 21. Document ID: US 5891931 A

L4: Entry 21 of 61

File: USPT

Apr 6, 1999

US-PAT-NO: 5891931

DOCUMENT-IDENTIFIER: US 5891931 A

TITLE: Method of preparing foldable high refractive index acrylic ophthalmic device materials

DATE-ISSUED: April 6, 1999

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Leboeuf; Albert R.	Fort Worth	TX		
Karakelle; Mutlu	Fort Worth	TX		

US-CL-CURRENT: 522/64; 522/182, 522/26, 522/28

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
Draw Desc	Image								

KWC

☐ 22. Document ID: US 5861031 A

L4: Entry 22 of 61

File: USPT

Jan 19, 1999

US-PAT-NO: 5861031

DOCUMENT-IDENTIFIER: US 5861031 A

TITLE: Intraocular lens from arylalkyl(meth)acrylate polymer(s)

DATE-ISSUED: January 19, 1999

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Namdaran; Farhad Hod	Bellevue	WA		
LeBoeuf; Albert Raymond	Fort Worth	TX		

US-CL-CURRENT: 623/6.56

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	KWC
Draw Desc	Image									

☐ 23. Document ID: US 5811502 A

L4: Entry 23 of 61

File: USPT

Sep 22, 1998

US-PAT-NO: 5811502
DOCUMENT-IDENTIFIER: US 5811502 A

TITLE: Ocular lens material

DATE-ISSUED: September 22, 1998

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Hiratani; Haruyuki	Kasugai			JP

US-CL-CURRENT: 526/318

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	KWC
Draw Desc	Image									

☐ 24. Document ID: US 5792822 A

L4: Entry 24 of 61

File: USPT

Aug 11, 1998

US-PAT-NO: 5792822
DOCUMENT-IDENTIFIER: US 5792822 A

TITLE: Transparent plastic material, optical article based on the material, and production method thereof

DATE-ISSUED: August 11, 1998

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Miyabayashi; Toshiyuki	Suwa			JP
Kinoshita; Jun	Suwa			JP

US-CL-CURRENT: 526/240; 526/241, 526/266, 526/286

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	KWC
Draw Desc	Image									

☐ 25. Document ID: US 5708049 A

L4: Entry 25 of 61

File: USPT

Jan 13, 1998

US-PAT-NO: 5708049

DOCUMENT-IDENTIFIER: US 5708049 A

TITLE: Colored contact lens and method for producing the same

DATE-ISSUED: January 13, 1998

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Katagiri; Hiroshi	Suwa			JP
Kojima; Tadao	Suwa			JP
Ushiyama; Youichi	Suwa			JP

US-CL-CURRENT: 523/106; 351/162, 524/547, 526/240, 526/241, 526/284, 526/310

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	KWC
Draw Desc	Image									

☐ 26. Document ID: US 5674960 A

L4: Entry 26 of 61

File: USPT

Oct 7, 1997

US-PAT-NO: 5674960

DOCUMENT-IDENTIFIER: US 5674960 A

TITLE: Flexible high refractive index, cross-linked, acrylic copolymers

DATE-ISSUED: October 7, 1997

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Namdaran; Farhad Hod	Bellevue	WA		
LeBoeuf; Albert Raymond	Fort Worth	TX		

US-CL-CURRENT: 526/259; 526/289, 526/312, 526/320, 526/323.1

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	KWC
Draw Desc	Image									

☐ 27. Document ID: US 5674283 A

L4: Entry 27 of 61

File: USPT

Oct 7, 1997

US-PAT-NO: 5674283

DOCUMENT-IDENTIFIER: US 5674283 A

TITLE: Implantable ophthalmic lens, a method of manufacturing same and a mold for carrying out said method

DATE-ISSUED: October 7, 1997

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Stoy; Vladimir A.	Princeton	NJ	08540	

US-CL-CURRENT: 623/5.11; 264/1.1, 264/1.7, 264/2.4, 425/808, 623/901

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
Draw	Desc	Image							

KWC

☐ 28. Document ID: US 5662707 A

L4: Entry 28 of 61

File: USPT

Sep 2, 1997

US-PAT-NO: 5662707

DOCUMENT-IDENTIFIER: US 5662707 A

TITLE: Polymerizable yellow dyes and their use in ophthalmic lenses

DATE-ISSUED: September 2, 1997

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Jinkerson; David L.	Fort Worth	TX		

US-CL-CURRENT: 623/6.17; 526/312, 526/328.5

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
Draw	Desc	Image							

KWC

☐ 29. Document ID: US 5567365 A

L4: Entry 29 of 61

File: USPT

Oct 22, 1996

US-PAT-NO: 5567365

DOCUMENT-IDENTIFIER: US 5567365 A

TITLE: Method of producing repositionable intraocular lenses

DATE-ISSUED: October 22, 1996

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Weinschenk, III; Joseph I.	Laguna Niguel	CA		
Deacon; Jim	Capistrano Beach	CA		
Sussman; Glenn R.	Lake Forest	CA		

US-CL-CURRENT: 264/1.7; 264/162, 264/2.6, 264/2.7, 264/230, 623/6.58

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
Draw	Desc	Image							

KWC

☐ 30. Document ID: US 5543504 A

L4: Entry 30 of 61

File: USPT

Aug 6, 1996

US-PAT-NO: 5543504

DOCUMENT-IDENTIFIER: US 5543504 A

TITLE: Polymerizable yellow dyes and their use in ophthalmic lenses

DATE-ISSUED: August 6, 1996

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Jinkerson; David L.	Fort Worth	TX		

US-CL-CURRENT: 534/856; 534/650, 534/726

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
Drawn Desc	Image								

KMC

☐ 31. Document ID: US 5528322 A

L4: Entry 31 of 61

File: USPT

Jun 18, 1996

US-PAT-NO: 5528322

DOCUMENT-IDENTIFIER: US 5528322 A

TITLE: Polymerizable yellow dyes and their use in ophthalmic lenses

DATE-ISSUED: June 18, 1996

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Jinkerson; David L.	Fort Worth	TX		

US-CL-CURRENT: 351/163; 526/312

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
Drawn Desc	Image								

KMC

☐ 32. Document ID: US 5519070 A

L4: Entry 32 of 61

File: USPT

May 21, 1996

US-PAT-NO: 5519070

DOCUMENT-IDENTIFIER: US 5519070 A

TITLE: Soft ocular lens material

DATE-ISSUED: May 21, 1996

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Watanabe; Tsuyoshi	Nagoya			JP
Ando; Ichiro	Nagoya			JP
Ichinohe; Shoji	Gunma			JP
Yamazaki; Toshio	Gunma			JP

US-CL-CURRENT: 523/107; 526/245, 526/279, 526/301, 528/32

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	KWC
Draw Desc	Image									

☐ 33. Document ID: US 5479555 A

L4: Entry 33 of 61

File: USPT

Dec 26, 1995

US-PAT-NO: 5479555

DOCUMENT-IDENTIFIER: US 5479555 A

TITLE: Photopolymerizable compositions for making optical materials and process making them

DATE-ISSUED: December 26, 1995

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Rot; Alfred	Brooklyn	NY	11234	
Zaks-Rot; Irina	Brooklyn	NY	11234	

US-CL-CURRENT: 385/145; 522/181, 522/182, 522/183, 522/187

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	KWC
Draw Desc	Image									

☐ 34. Document ID: US 5470932 A

L4: Entry 34 of 61

File: USPT

Nov 28, 1995

US-PAT-NO: 5470932

DOCUMENT-IDENTIFIER: US 5470932 A

TITLE: Polymerizable yellow dyes and their use in opthalmic lenses

DATE-ISSUED: November 28, 1995

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Jinkerson; David L.	Fort Worth	TX		

US-CL-CURRENT: 526/312; 526/328.5

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	KWC
Draw Desc	Image									

☐ 35. Document ID: US 5433746 A

L4: Entry 35 of 61

File: USPT

Jul 18, 1995

US-PAT-NO: 5433746

DOCUMENT-IDENTIFIER: US 5433746 A

TITLE: Flexible intraocular lenses made from high refractive index polymers

DATE-ISSUED: July 18, 1995

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Namdaran; Farhad H.	Bellevue	WA		
LeBoeuf; Albert R.	Fort Worth	TX		

US-CL-CURRENT: 623/6.58; 526/292.1

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	KWIC
Draw	Desc	Image								

☐ 36. Document ID: US 5416180 A

L4: Entry 36 of 61

File: USPT

May 16, 1995

US-PAT-NO: 5416180

DOCUMENT-IDENTIFIER: US 5416180 A

TITLE: Soft ocular lens material

DATE-ISSUED: May 16, 1995

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Yokoyama; Yasuhiro	Nagoya			JP
Iwata; Noriko	Nagoya			JP
Ito; Eri	Nagoya			JP
Ichinohe; Shoji	Annaka			JP
Yamazaki; Toshio	Annaka			JP

US-CL-CURRENT: 526/245

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	KWIC
Draw	Desc	Image								

☐ 37. Document ID: US 5403901 A

L4: Entry 37 of 61

File: USPT

Apr 4, 1995

US-PAT-NO: 5403901

DOCUMENT-IDENTIFIER: US 5403901 A

TITLE: Flexible, high refractive index polymers

DATE-ISSUED: April 4, 1995

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Namdaran; Farhad H.	Bellevue	WA		
LeBoeuf; Albert R.	Fort Worth	TX		

US-CL-CURRENT: 526/259; 526/292.2, 526/292.3, 526/296, 526/313

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
Draw Desc	Image								

KMIC

☐ 38. Document ID: US 5359021 A

L4: Entry 38 of 61

File: USPT

Oct 25, 1994

US-PAT-NO: 5359021

DOCUMENT-IDENTIFIER: US 5359021 A

TITLE: Polymeric compositions and intraocular lenses made from same

DATE-ISSUED: October 25, 1994

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Weinschenk, III; Joseph I.	Laguna Beach	CA		
Christ; F. Richard	Laguna Beach	CA		

US-CL-CURRENT: 526/264; 526/303.1, 526/328.5, 526/347, 623/6.56, 623/6.58

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
Draw Desc	Image								

KMIC

☐ 39. Document ID: US 5332742 A

L4: Entry 39 of 61

File: USPT

Jul 26, 1994

US-PAT-NO: 5332742

DOCUMENT-IDENTIFIER: US 5332742 A

TITLE: Renin inhibitors

DATE-ISSUED: July 26, 1994

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Rosenberg; Saul H.	Libertyville	IL		

US-CL-CURRENT: 514/254.02; 514/19, 514/218, 514/227.8, 514/235.8, 514/236.5, 514/236.8, 514/254.05, 514/255.02, 540/603, 544/122, 544/132, 544/137, 544/138, 544/140, 544/158, 544/159, 544/59, 544/60

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
Draw Desc	Image								

KMIC

☐ 40. Document ID: US 5331073 A

L4: Entry 40 of 61

File: USPT

Jul 19, 1994

US-PAT-NO: 5331073

DOCUMENT-IDENTIFIER: US 5331073 A

TITLE: Polymeric compositions and intraocular lenses made from same

DATE-ISSUED: July 19, 1994

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Weinschenk, III; Joseph I.	Laguna Niguel	CA		
Christ; F. Richard	Laguna Beach	CA		

US-CL-CURRENT: 526/264; 526/303.1, 526/328.5, 526/347, 623/6.58

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
Draw	Desc	Image							

KWC

☐ 41. Document ID: US 5326346 A

L4: Entry 41 of 61

File: USPT

Jul 5, 1994

US-PAT-NO: 5326346

DOCUMENT-IDENTIFIER: US 5326346 A

TITLE: Light-cured urethane dimethacrylate ocular prosthesis

DATE-ISSUED: July 5, 1994

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Cortes; Aquileo L.	San Antonio	TX		

US-CL-CURRENT: 623/6.64; 623/901

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
Draw	Desc	Image							

KWC

☐ 42. Document ID: US 5310740 A

L4: Entry 42 of 61

File: USPT

May 10, 1994

US-PAT-NO: 5310740

DOCUMENT-IDENTIFIER: US 5310740 A

TITLE: Renin inhibitors

DATE-ISSUED: May 10, 1994

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Rosenberg; Saul H.	Libertyville	IL		
Denissen; Jon F.	McHenry	IL		

US-CL-CURRENT: 514/236.8; 514/19, 514/227.8, 514/237.2, 514/238.2, 514/254.02,
514/254.05, 514/255.02, 544/133, 544/139, 544/140, 544/159, 544/369, 544/370, 544/371,
544/58.1, 544/58.5

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
Draw	Desc	Image							

KWC

☐ 43. Document ID: US 5290892 A

L4: Entry 43 of 61

File: USPT

Mar 1, 1994

US-PAT-NO: 5290892

DOCUMENT-IDENTIFIER: US 5290892 A

TITLE: Flexible intraocular lenses made from high refractive index polymers

DATE-ISSUED: March 1, 1994

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Namdaran; Farhad H.	Bellevue	WA		
LeBoeuf; Albert R.	Fort Worth	TX		

US-CL-CURRENT: 526/259; 526/289, 526/292.5, 526/307.5, 526/312, 526/323.1, 623/6.56

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	KVMC
Draw Desc	Image									

☐ 44. Document ID: US 5284849 A

L4: Entry 44 of 61

File: USPT

Feb 8, 1994

US-PAT-NO: 5284849

DOCUMENT-IDENTIFIER: US 5284849 A

TITLE: Renin inhibitors

DATE-ISSUED: February 8, 1994

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Rosenberg; Saul H.	Libertyville	IL		
Denissen; Jon F.	McHenry	IL		

US-CL-CURRENT: 514/254.02; 514/19, 514/218, 514/227.5, 514/231.2, 514/238.8, 514/254.05, 514/255.02, 540/575, 544/133, 544/139, 544/140, 544/159, 544/369, 544/370, 544/371, 544/60

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	KVMC
Draw Desc	Image									

☐ 45. Document ID: US 5269813 A

L4: Entry 45 of 61

File: USPT

Dec 14, 1993

US-PAT-NO: 5269813

DOCUMENT-IDENTIFIER: US 5269813 A

TITLE: Material for one-piece intraocular lenses

DATE-ISSUED: December 14, 1993

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Yoshida; Kunihi	Aichi			JP
Nakada; Kazuhiko	Aichi			JP

US-CL-CURRENT: 623/6.58; 523/106, 526/245, 526/328.5, 526/329.4, 526/329.5, 526/329.7

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
Draw Desc	Image								

KVMC

☐ 46. Document ID: US 5258362 A

L4: Entry 46 of 61

File: USPT

Nov 2, 1993

US-PAT-NO: 5258362

DOCUMENT-IDENTIFIER: US 5258362 A

TITLE: Renin inhibiting compounds

DATE-ISSUED: November 2, 1993

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Rosenberg; Saul H.	Libertyville	IL		

US-CL-CURRENT: 514/19; 514/18, 530/328, 530/329, 530/330, 530/331, 530/332, 544/369,
544/370, 544/400, 546/269.7, 548/204, 548/300.7, 548/304.7, 548/311.1, 548/365.7,
549/510, 549/512

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
Draw Desc	Image								

KVMC

☐ 47. Document ID: US 5254682 A

L4: Entry 47 of 61

File: USPT

Oct 19, 1993

US-PAT-NO: 5254682

DOCUMENT-IDENTIFIER: US 5254682 A

TITLE: Cyclic renin inhibitors containing 3(S)-amino-4-cyclohexyl-2(R)-hydroxy-butanoic acid or 4-cyclo-hexyl-(2R, 3S)-dihydroxybutanoic acid or related analogs

DATE-ISSUED: October 19, 1993

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Dhanoa; Daljit S.	Tinton Falls	NJ		
Patchett; Arthur A.	Westfield	NJ		
Greenlee; William J.	Teaneck	NJ		
Parsons; William H.	Rahway	NJ		
Halgren; Thomas A.	Upper Montclair	NJ		
Weber; Ann E.	Scotch Plains	NJ		
Yang; Lihu	Woodbridge	NJ		

US-CL-CURRENT: 540/451; 540/454, 540/460, 540/463

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
Drawn Desc	Image								

KWC

☐ 48. Document ID: US 5235013 A

L4: Entry 48 of 61

File: USPT

Aug 10, 1993

US-PAT-NO: 5235013

DOCUMENT-IDENTIFIER: US 5235013 A

TITLE: Process for producing oxygen-permeable polymer

DATE-ISSUED: August 10, 1993

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP	CODE	COUNTRY
Ito; Tetsuo	Oi, Kukizakimachi, Inashiki gun, Ibaraki-ken				JP
Kurita; Osamu	Tsuchiura-shi				JP
Yasuda; Kenji	Ushiku-shi				JP
Takahashi; Masayuki	Tsukuba-shi				JP

US-CL-CURRENT: 526/245; 526/260, 526/318.4, 526/329

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
Drawn Desc	Image								

KWC

☐ 49. Document ID: US 5194605 A

L4: Entry 49 of 61

File: USPT

Mar 16, 1993

US-PAT-NO: 5194605

DOCUMENT-IDENTIFIER: US 5194605 A

TITLE: Cyclic renin inhibitors containing 2-substituted (3S,4S)-4-amino-5-cyclohexyl-3-hydroxy pentanoic acid, 2-substituted (3S,4S)-5-cyclohexyl-3,4-di-hydroxy pentanoic acid or 2-substituted (4S,5S)-5-amino-6-cyclohexyl-4-hydroxyhexanoic acid or its analogs

DATE-ISSUED: March 16, 1993

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP	CODE	COUNTRY
Greenlee; William J.	Teaneck	NJ			
Rivero; Ralph A.	Eatontown	NJ			
Weber; Ann E.	Scotch Plains	NJ			
Yang; Lihu	Woodbridge	NJ			

US-CL-CURRENT: 540/460; 540/454, 544/127, 544/148, 548/429, 549/267

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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☐ 50. Document ID: US 5147902 A

L4: Entry 50 of 61

File: USPT

Sep 15, 1992

US-PAT-NO: 5147902

DOCUMENT-IDENTIFIER: US 5147902 A

TITLE: Ultraviolet light absorbing ocular lens

DATE-ISSUED: September 15, 1992

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Ichikawa; Makoto	Nagoya			JP
Niwa; Kazuharu	Nagoya			JP
Nakada; Kazuhiko	Nagoya			JP

US-CL-CURRENT: 523/106; 514/972, 524/94, 526/259, 548/259

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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☐ 51. Document ID: US 5080472 A

L4: Entry 51 of 61

File: USPT

Jan 14, 1992

US-PAT-NO: 5080472

DOCUMENT-IDENTIFIER: US 5080472 A

TITLE: Multifocal optical lens

DATE-ISSUED: January 14, 1992

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Gupta; Amitava	Pasadena	CA		

US-CL-CURRENT: 359/652; 351/161, 359/721, 359/900

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KMC

☐ 52. Document ID: US 5063208 A

L4: Entry 52 of 61

File: USPT

Nov 5, 1991

US-PAT-NO: 5063208

DOCUMENT-IDENTIFIER: US 5063208 A

TITLE: Peptidyl aminodiol renin inhibitors

DATE-ISSUED: November 5, 1991

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Rosenberg; Saul H.	Libertyville	IL		
Spina; Kenneth P.	Chicago	IL		
Crowley; Steven R.	Vernon Hills	IL		

US-CL-CURRENT: 514/19; 514/18, 530/331, 530/332, 540/451, 540/476, 540/523, 540/593,
544/162, 546/141, 546/146, 548/225, 548/312.7, 548/338.1, 548/339.1, 548/365.1,
548/365.7, 548/375.1, 548/376.1, 548/537, 564/153, 564/157

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	KWC
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☐ 53. Document ID: US 5041511 A

L4: Entry 53 of 61

File: USPT

Aug 20, 1991

US-PAT-NO: 5041511

DOCUMENT-IDENTIFIER: US 5041511 A

TITLE: Ocular lens material

DATE-ISSUED: August 20, 1991

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Yanagawa; Hiroaki	Nagoya			JP
Kamiya; Naotaka	Nagoya			JP

US-CL-CURRENT: 526/326; 359/642, 526/245, 526/279

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	KWC
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☐ 54. Document ID: US 5037178 A

L4: Entry 54 of 61

File: USPT

Aug 6, 1991

US-PAT-NO: 5037178

DOCUMENT-IDENTIFIER: US 5037178 A

TITLE: Amorphous memory polymer alignment device

DATE-ISSUED: August 6, 1991

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Stoy; Vladimir A.	Princeton	NJ		
Delahanty; Francis T.	Newtown Twp., Bucks County	PA		

US-CL-CURRENT: 385/53; 385/15, 428/34.9

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	KWC
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☐ 55. Document ID: US 4954586 A

L4: Entry 55 of 61

File: USPT

Sep 4, 1990

US-PAT-NO: 4954586

DOCUMENT-IDENTIFIER: US 4954586 A

TITLE: Soft ocular lens material

DATE-ISSUED: September 4, 1990

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Toyoshima; Nobuyuki	Nagoya			JP
Shibata; Takanori	Nagoya			JP
Hirashima; Atsushi	Nagoya			JP
Ando; Ichiro	Nagoya			JP
Iwata; Noriko	Nagoya			JP
Yoshioka; Hiroshi	Annaka			JP
Itagaki; Akinari	Annaka			JP
Yamazaki; Toshio	Annaka			JP

US-CL-CURRENT: 526/245; 523/107, 526/279

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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☐ 56. Document ID: US 4731079 A

L4: Entry 56 of 61

File: USPT

Mar 15, 1988

US-PAT-NO: 4731079

DOCUMENT-IDENTIFIER: US 4731079 A

TITLE: Intraocular lenses

DATE-ISSUED: March 15, 1988

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Stoy; Vladimir	Princeton	NJ		

US-CL-CURRENT: 623/6.58; 206/5.1, 606/107

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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☐ 57. Document ID: US 4661573 A

L4: Entry 57 of 61

File: USPT

Apr 28, 1987

US-PAT-NO: 4661573

DOCUMENT-IDENTIFIER: US 4661573 A

TITLE: Lens composition articles and method of manufacture

DATE-ISSUED: April 28, 1987

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Ratkowski; Donald J.	Mesa	AZ		
Burke; William J.	Tempe	AZ		

US-CL-CURRENT: 526/245; 351/160H, 351/160R, 523/107

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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☐ 58. Document ID: US 4440919 A

L4: Entry 58 of 61

File: USPT

Apr 3, 1984

US-PAT-NO: 4440919

DOCUMENT-IDENTIFIER: US 4440919 A

TITLE: Low N-vinyl lactam content based biomedical devices

DATE-ISSUED: April 3, 1984

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Chromecek; Richard C.	Macedon	NY		
Friends; Gary D.	Ontario	NY		
Wissman; Lawrence Y.	Rochester	NY		
Yourd, III; Raymond A.	Rochester	NY		

US-CL-CURRENT: 526/263; 351/160H, 351/160R, 523/108, 526/259, 526/260, 526/262,
526/264, 528/499, 528/500

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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☐ 59. Document ID: US 4436887 A

L4: Entry 59 of 61

File: USPT

Mar 13, 1984

US-PAT-NO: 4436887

DOCUMENT-IDENTIFIER: US 4436887 A

TITLE: N-Vinyl lactam based biomedical devices

DATE-ISSUED: March 13, 1984

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Chromecek; Richard C.	Macedon	NY		
Friends; Gary D.	Ontario	NY		
Wissman; Lawrence Y.	Rochester	NY		
Yourd, III; Raymond A.	Rochester	NY		

• * US-CL-CURRENT: 526/263; 351/160H, 351/160R, 523/108, 526/259, 526/260, 526/262,
526/264, 528/499, 528/500

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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☐ 60. Document ID: US 4277595 A

L4: Entry 60 of 61

File: USPT

Jul 7, 1981

US-PAT-NO: 4277595

DOCUMENT-IDENTIFIER: US 4277595 A

TITLE: Water absorbing contact lenses made from polysiloxane/acrylic acid polymer

DATE-ISSUED: July 7, 1981

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Deichert; William G.	Macedon	NY		
Niu; Gregory C.	Lexington	MA		
VanBuren; Martin F.	Chelmsford	MA		

US-CL-CURRENT: 528/26; 351/160H, 525/479, 526/279

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KVMC

☐ 61. Document ID: US 4259467 A

L4: Entry 61 of 61

File: USPT

Mar 31, 1981

US-PAT-NO: 4259467

DOCUMENT-IDENTIFIER: US 4259467 A

TITLE: Hydrophilic contact lens made from polysiloxanes containing hydrophilic sidechains

DATE-ISSUED: March 31, 1981

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Keogh; Philip L.	Pittsford	NY		
Kunzler; Jay F.	Canadaigua	NY		
Niu; Gregory C. C.	Lexington	MA		

US-CL-CURRENT: 526/279; 264/1.1, 351/160H, 351/160R, 522/43, 522/99, 523/107, 528/12,
528/25, 528/31, 528/32, 556/437, 602/41, 602/48

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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L6: Entry 1 of 2

File: USPT

Oct 30, 2001

DOCUMENT-IDENTIFIER: US 6310116 B1

TITLE: Molded polymer article having a hydrophilic surface and process for producing the same

Brief Summary Text (7):

Modification of the surface of a molded polymer article is widely practiced, to provide the article with a new function which the polymer constituting the main body of the article does not originally possess. In particular, in the field of medical products, various surface modification techniques have been attempted to improve the biocompatibility of the polymer used to human body. Among such medical products, lenses for human eyes, such as contact lenses and intraocular lenses, are made principally of silicone resin and acrylic resins containing silicon and/or fluorine atom. These materials are highly hydrophobic and tend to cause troubles such as lens sticking to cornea, clouding of lens and poor comfort during wear. For contact lenses and similar items obtained from these materials, various attempts have therefore been made to treat the surface to provide it with hydrophilic property, thereby eliminating the disadvantages of lens sticking to cornea and clouding of lens, and improving the comfort during wear.

Brief Summary Text (8):

The processes for rendering hydrophilic the surface of contact lenses or intraocular lenses are roughly classified into: (A) one which comprises at first preparing a lens and then treating its surface to provide hydrophilic property; (B) one which comprises curing and shaping a previously produced polymer into a lens and, at the same time, rendering the surface hydrophilic; and (C) one which comprises molding a polymerizable monomer into a lens and, at the same time, rendering hydrophilic the surface of the resulting article.

Brief Summary Text (42):

The molded polymer articles of the present invention may have a hydrophilic polymer layer on either the entire surface or part of the surface thereof. It is recommended to permit the hydrophilic polymer layer to be present on the surface of a molded polymer article where the hydrophilic property is needed according to the type, shape, use and the like of the molded polymer article. Where the molded polymer articles of the present invention are contact lenses, intraocular lenses and the like, it is preferred that they have the hydrophilic polymer layer on their entire surface.

Brief Summary Text (43):

The molded polymer articles of the present invention may have any shape or structure, with no specific limitation, and the shape or structure can be suitably selected according to the end-use and the like. The molded polymer articles of the present invention may be applied to any end-use, with no specific limitation either. Examples of applicable end-uses are general industrial items, living necessities, medical products, and articles for agricultural and marine uses. Among these uses, the molded polymer articles are suitable as medical products, such as artificial organs, catheters, intraocular lenses, contact lenses and dental materials, in particular as contact lenses and intraocular lenses.

Brief Summary Text (54):

Examples of monomers having a hydrophilic group and preferably used in the invention are 2-hydroxyethyl (meth)acrylate, 2-hydroxypropyl (meth)acrylate, 12-hydroxydodecyl (meth)acrylate, glycerine mono(meth)acrylate, glycerine di(meth)acrylate, (meth)acrylic acid, mono{2-(meth)acryloyloxyethyl}succinate, mono{2-(meth)acryloyloxyethyl}maleate, mono{2-(meth)acryloyloxyethyl}phthalate, 2-(meth)acryloyloxyethyl dihydrogen phosphate, 10-(meth)acryloyloxydecyl dihydrogen phosphate, bis{2-(meth)acryloyloxyethyl}hydrogen

- " phosphate, (meth)acrylamide, N-methylol(meth)acrylamide, N,N'-methylenebis(meth)acrylamide, 2-acrylamide-2-methylpropanesulfonic acid and its alkali metal salts, 2-aminoethyl (meth)acrylate, N,N-dimethylaminoethyl (meth)acrylate, 4-(meth)acryloyloxybutyltrimethylammonium chloride, 2-hydroxy-3-(meth)acryloyloxypropyltrimethylammonium chloride, 2-(meth)acryloyloxyethylphosphoryl choline, 6-(meth)acryloyloxyhexylphosphoryl choline, 10-(meth)acryloyloxydecylphosphoryl choline, polyethylene glycol mono(meth)acrylate, polyethylene glycol di(meth)acrylate, N-vinylpyrrolidone, N-vinylcaprolactam, N-vinylloxazolidone, N-vinylsuccinimide, 2-hydroxyethyl vinyl ether, allyl 2-hydroxyethyl ether, allylphosphoryl choline, decenylphosphoryl choline, sodium styrenesulfonate, cinnamic acid and p-vinylbenzoic acid.

Brief Summary Text (58):

Examples of other monomers usable in combination with the monomer having a hydrophilic group are monofunctional monomers, e.g. methyl (meth)acrylate, butyl (meth)acrylate, benzyl (meth)acrylate, glycidyl (meth)acrylate, tetrahydrofurfuryl (meth)acrylate, 3-methacryloyloxypropyltris(trimethylsiloxy)silane, vinyl pivalate, vinyl caprylate and vinyl benzoate; and multi-functional monomers, e.g. ethylene glycol di(meth)acrylate, triethylene glycol di(meth)acrylate, glycerine tri(meth)acrylate, pentaerythritol tetra(meth)acrylate, and divinyl adipate. Examples of oligomers usable in combination with the monomer having a hydrophilic group are those acrylic-based oligomers, vinyl ester-based oligomers and silicone-based oligomers that have at least one polymerizable group.

Brief Summary Text (89):

The molded polymer articles of the present invention can be effectively used for various end-uses requiring that at least part of the surface of the article used be hydrophilic. Examples of such uses are general industrial items, living necessities, medical products, and articles for agricultural and marine uses. Among these uses, the molded polymer articles of the present invention are suitable as medical products, such as artificial organs, catheters, intraocular lenses, contact lenses and dental materials, in particular as contact lenses and intraocular lenses.

Detailed Description Text (8):

(1) A borosilicate glass plate (length.times.width.times.thickness=50 mm.times.50 mm.times.3 mm) washed with an alkali solution (saturated potassium hydroxide solution in isopropanol), which constituted a mold plate and had a water contact angle of 0.degree.) was immersed in a 30% 2-methacryloyloxyethylphosphoryl choline (hereinafter referred to as MPC) solution in isopropanol. The plate was vertically pulled up at a rate of 5 mm/sec and then air dried, to form a coating layer of MPC on the glass plate.

CLAIMS:

14. The molded polymer article of claim 12, which is an intraocular lens.
15. The molded polymer article of claim 7, wherein the monomer having a hydrophilic group is 2-methacryloyloxyethylphosphoryl choline.

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L6: Entry 1 of 2

File: USPT

Oct 30, 2001

US-PAT-NO: 6310116

DOCUMENT-IDENTIFIER: US 6310116 B1

TITLE: Molded polymer article having a hydrophilic surface and process for producing the same

DATE-ISSUED: October 30, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Yasuda; Tokugen	Kyoto			JP
Inoue; Hitoshi	Kyoto			JP
Kitajima; Satsuki	Kyoto			JP
Sato; Masahiro	Kyoto			JP
Yang; Wu	Kyoto			JP
Omura; Ikuo	Kurashiki			JP

US-CL-CURRENT: 523/106; 264/1.7, 427/133, 427/2.24, 523/105, 523/107

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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☐ 2. Document ID: US 5939208 A

L6: Entry 2 of 2

File: USPT

Aug 17, 1999

US-PAT-NO: 5939208

DOCUMENT-IDENTIFIER: US 5939208 A

TITLE: Method for creation of biomimetic surfaces

DATE-ISSUED: August 17, 1999

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Stoy; Patrick	Princeton	NJ		

US-CL-CURRENT: 428/500; 424/422, 424/423, 424/427, 424/487, 427/2.12, 427/2.13, 427/2.24, 427/2.28, 427/2.3, 427/340, 427/352, 427/353, 428/424.2, 428/424.7, 523/103, 523/105, 523/106, 523/108

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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